Laser Development and Engineering 
Division

Optical Fabrication Shop
Location of Facility: LLE, Room 1604

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Description of Facility:
The Optical Fabrication Shop has the capability of fabricating specialized optics. This includes the polishing of substrates up to 300 mm in diameter to a flatness of \( \lambda /20 \) and a rms surface roughness of 0.5nm. The fabrication of small optics, e.g. lenses, prisms, wedges, mirrors, lenslet arrays, laser oscillator rods, etc., is done with a variety of glasses and crystals.

This shop contains two Rogers and Clark annular-ring continuous-polishing machines of 36 inches and 60 inches, respectively. Finish polishing on these machines is supported by an array of single-spindle grinding and polishing stations. A new capability for grinding and polishing barrels and cylinders was recently acquired. The facility is equipped with a fume hood for acid etching and a Zygo Mark IV xp interferometer.

The services of the Optical Fabrication shop are available to any University customer. The present shop rate is $93/hour. Estimates are available by contacting Alex Maltsev. Services are requested by providing an account number and approving the estimate.

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